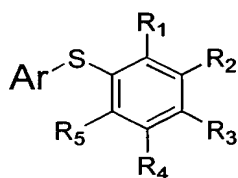


## CLAIMS

What is claimed is:

- 5 1. A compound of formula I



I

or a pharmaceutically-acceptable salt or prodrug thereof,

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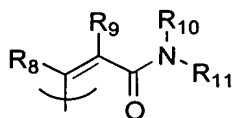
wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, and R<sub>5</sub> are independently selected from

- a. hydrogen,
- b. halogen,
- 15 c. alkyl,
- d. haloalkyl,
- e. alkoxy,
- f. cyano,
- g. nitro,
- 20 h. carboxaldehyde, and

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with the proviso that at least one of  $R_1$  or  $R_3$  is a "*cis*-cinnamide" or a "*trans*-cinnamide", defined as



"*cis*-cinnamide"



"*trans*-cinnamide",

wherein  $R_8$  and  $R_9$  are independently selected from

- a. hydrogen, and
- b. alkyl,
- c. carboxy alkyl,
- d. alkylaminocarbonyl alkyl, and
- e. dialkylaminocarbonyl alkyl,

and  $R_{10}$  and  $R_{11}$  are independently selected from

- a. hydrogen,
- b. alkyl,
- c. cycloalkyl,
- d. alkoxycarbonylalkyl,
- e. hydroxyalkyl,

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- f. substituted aryl,  
g. heterocyclyl,  
h. heterocyclalkyl,  
i. heterocyclamino,  
j. substituted heterocyclyl, and  
k. substituted heterocyclalkyl,

5

or where  $\text{NR}_{10}\text{R}_{11}$  is heterocyclyl or substituted heterocyclyl, where  
substituents are independently selected from

10

- 1) alkyl,
- 2) alkoxy,
- 3) alkoxyalkyl,
- 4) cycloalkyl,
- 5) aryl,
- 6) heterocyclyl,
- 7) heterocyclcarbonyl,
- 8) heterocyclalkylaminocarbonyl,
- 9) hydroxy,
- 10) hydroxyalkyl,
- 11) hydroxyalkoxyalkyl,
- 12) carboxy,

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- 13) carboxyalkyl,  
14) carboxycarbonyl,  
15) carboxaldehyde,  
16) alkoxycarbonyl,  
17) arylalkoxycarbonyl,  
18) aminoalkyl,  
19) aminoalkanoyl,  
20) carboxamido,  
21) alkoxycarbonylalkyl,  
22) carboxamidoalkyl,  
23) cyano,  
24) tetrazolyl,  
25) substituted tetrazolyl,  
26) alkanoyl,  
27) hydroxyalkanoyl,  
28) alkanoyloxy,  
29) alkanoylamino,  
30) alkanoyloxyalkyl,  
31) alkanoylaminoalkyl,  
32) sulfonate,  
33) alkylsulfonyl,  
34) alkylsulfonylaminocarbonyl,

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35) arylsulfonylaminocarbonyl, and

36) heterocyclylsulfonylaminocarbonyl,

and wherein Ar is a substituted aryl or substituted heteroaryl group, where

5 substitutions are independently selected from

a. hydrogen,

b. halogen,

c. alkyl,

10 d. aryl,

e. haloalkyl,

f. hydroxy,

g. alkoxy,

h. alkoxyalkyl,

15 i. alkoxycarbonyl,

j. alkoxyalkoxy,

k. hydroxyalkyl,

l. aminoalkyl,

m. aminocarbonyl,

20 n. alkyl(alkoxycarbonylalkyl)aminoalkyl,

o. heterocyclyl,

p. substituted heterocyclyl,

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- 5 q. heterocyclalkyl,  
r. substituted heterocyclalkyl,  
s. carboxaldehyde,  
t. carboxaldehyde hydrazone,  
u. carboxamide,  
v. alkoxycarbonylalkyl,  
w. carboxy,  
x. carboxyalkyl,  
y. carboxyalkoxy,  
10 z. carboxythioalkoxy,  
aa. carboxycycloalkoxy,  
bb. thioalkyl,  
cc. hydroxycarbonylalkyl (carboxyalkyl),  
dd. hydroxyalkylaminocarbonyl,  
15 ee. cyano,  
ff. amino,  
gg. heterocyclalkylamino,  
hh. carboxyalkylamino,  
ii. heterocyclalkylaminocarbonyl, and  
20 jj. "trans-cinnamide",

or a pharmaceutically-acceptable salt or prodrug thereof.

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2. A compound according to Claim 1 wherein R<sub>1</sub> is a “*cis*-cinnamide” or a “*trans*-cinnamide”, and R<sub>3</sub> is hydrogen.
- 5 3. A compound according to Claim 1 wherein R<sub>3</sub> is a “*cis*-cinnamide” or a “*trans*-cinnamide”, and R<sub>1</sub> is hydrogen.
4. A compound according to Claim 1 wherein R<sub>3</sub> is a “*cis*-cinnamide” or a “*trans*-cinnamide”, and R<sub>1</sub>, R<sub>8</sub>, and R<sub>9</sub> are hydrogen.
- 10 5. A compound according to Claim 4 wherein R<sub>3</sub> is a “*cis*-cinnamide”.
6. A compound according to Claim 4 wherein R<sub>3</sub> is a “*trans*-cinnamide”.
- 15 7. A compound according to Claim 1 wherein R<sub>3</sub> is a “*cis*-cinnamide” or a “*trans*-cinnamide”, R<sub>1</sub>, R<sub>2</sub>, and R<sub>4</sub> are each independently hydrogen or alkyl; and R<sub>5</sub> is selected from halogen, haloalkyl, and nitro.
8. A compound according to Claim 4 wherein Ar is substituted aryl or substituted heteroaryl.
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9. A compound according to Claim 4 wherein  $R_{10}$  and  $R_{11}$  are each independently selected from hydrogen, alkyl, cycloalkyl, alkoxycarbonylalkyl, hydroxyalkyl, and heterocyclalkyl.
- 5 10. A compound according to Claim 4 wherein  $NR_{10}R_{11}$  is heterocyclalkyl or substituted heterocyclalkyl.
11. A compound according to Claim 8 wherein **Ar** is selected from substituted phenyl, 1,3-benzimidazol-2-one, 1,4-benzodioxane, 1,3-benzodioxole, 1-benzopyr-2-en-4-one, indole, isatin, 1,3-quinazolin-4-one, and quinoline.
- 10 12. A compound according to Claim 1 selected from the group consisting of:
- (2,4-Dichlorophenyl)[2-( *E*-((6-hydroxyhexylamino)carbonyl)ethenyl)phenyl] sulfide;
- 15 (2,4-Dichlorophenyl)[2-( *E*-((3-(1-imidazolyl)propylamino)carbonyl)ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((2 hydroxyethylamino)carbonyl)ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((6 ydroxyhexylamino)carbonyl)ethenyl)phenyl] sulfide;
- 20 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((bis-(2-hydroxyethyl)amino)carbonyl)ethenyl)phenyl] sulfide;

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(2,4-Dichlorophenyl)[2-chloro-4-( *E*-((3-(1-pyrrolidin-2-yl)propylamino)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

5 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-methylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

10 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-(2-pyridyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-(Hydroxymethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

(2-Bromophenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

15 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-(2-hydroxyethoxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Bromophenyl)[2-chloro-4-( *E*-((3-(hydroxymethyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

20 (2-Bromophenyl)[2-chloro-4-( *E*-((2-(hydroxymethyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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- ~~(2-Bromophenyl)[2-chloro-4-( *E*-((3-acetamidopyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2-Bromophenyl)[2-chloro-4-( *E*-((4-hydroxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
 5 ~~(2-Bromophenyl)[2-chloro-4-( *E*-((piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2,4-Dichlorophenyl)[2-chloro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
 10 ~~(2-Bromophenyl)[2-chloro-4-( *E*-((4-acetylhomopiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2-Bromophenyl)[2-chloro-4-( *E*-((thiomorpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2-Bromophenyl)[2-chloro-4-( *E*-((4-(1-benzimidazol-2-onyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
 15 ~~(2-Bromophenyl)[2-chloro-4-( *E*-((2-etrahydroisoquinoliny)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2-Methylphenyl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;~~  
 20 ~~(2-Methylphenyl)[2-trifluoromethyl-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;~~  
~~(2-Methylphenyl)[2-trifluoromethyl-4-( *E*-((2-(1-morpholinyl)ethylamino)carbonyl)~~

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(2-Methylphenyl)[2-trifluoromethyl-4-( *E*-((4-phenylpiperazin-1-yl)carbonyl)

(2-Methylphenyl)[2-trifluoromethyl-4-( *E*-((3-(1-pyrrolidin-2-onyl)propylamino)

(2-Methylphenyl)[2-trifluoromethyl-4-(*E*-

((cyclopropylamino)carbonyl)ethenyl)phenyl]

sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]

10 sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-(*E*)-((3-(1-pyrrolidin-2-onyl)propylamino)carbonyl)

ethenyl)phenyl] sulfide;

(2,3-Dichlorophenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]

sulfide;

15 (4-Bromophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]

sulfide;

(4-Methylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]

sulfide:

(2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)

20 ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(2-furoylcarbonyl)piperazin-1-yl)carbonyl)

ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(methanesulfonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(diethylaminocarbonylmethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

5 (2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(diethylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(*tert*-butoxycarbonylmethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(carboxycarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(carboxymethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methylphenyl)[2-nitro-4-( *E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

15 (2-Chlorophenyl)[2-nitro-4-( *E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Aminophenyl)[2-nitro-4-( *E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Hydroxymethylphenyl)[2-nitro-4-( *E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Ethylphenyl)[2-nitro-4-( *E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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(2-*iso*-Propylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]  
sulfide;

(2-*tert*-Butylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]  
sulfide;

5 (2-Chlorophenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl))2-  
propenyl)phenyl]  
sulfide;

(2-(1-Morpholinylmethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl) ethenyl)  
phenyl] sulfide;

10 (2-(4-(1,3-Benzodioxolyl-5-methyl)piperazin-1-ylmethyl)phenyl)[2-chloro-4-( *E*-((1-  
morpholinyl)carbonyl) ethenyl)phenyl] sulfide;

(2-(4-(*iso*-Propylaminocarbonylmethyl)piperazin-1-ylmethyl)phenyl)[2-chloro-4-( *E*-  
((1-morpholinyl)carbonyl) ethenyl)phenyl] sulfide;

(2-((*N*-Ethoxycarbonylmethyl-*N*-methyl)aminomethyl)phenyl)[2-chloro-4-( *E*-((1-  
15 morpholinyl)carbonyl) ethenyl)phenyl] sulfide;

(2-Formylphenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

(2-(4-Formylpiperazin-1-ylmethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)  
ethenyl)phenyl] sulfide;

(2-( *E*-((1-Morpholinyl)carbonyl)ethenyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)  
20 carbonyl)ethenyl)phenyl] sulfide;

(2-Formylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]  
sulfide;

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(2-Formylphenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide,  
N,N-dimethyl hydrazone;

(2-((3-(1-Morpholinyl)propyl)-1-amino)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl) ethenyl)phenyl] sulfide;

5 (2,4-Dichlorophenyl)[2-bromo-4-( *E*-((3-(1-pyrrolidin-2-onyl)propylamino)carbonyl)ethenyl)phenyl] sulfide;

(2,4-Dichlorophenyl)[2-formyl-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

10 (2-Chloro-6-formylphenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Cyanophenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-cyano-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

15 (2-Bromophenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-(Pyrrolidin-1-yl)phenyl)[2-chloro-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carbomethoxypiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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(2-Methylphenyl)[2-nitro-4-( *E*-((3-carboxamido-4-carbobenzoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((2-carbomethoxy-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((2-carboxy-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((morpholin -1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

(2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((cyclobutylamino)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((cyclopentylamino)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((5-hydroxypent-1-ylamino)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carbomethoxy-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Biphenyl)[2-chloro-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(3,4-Dimethylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Bromophenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (5-Indolyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(5-Benzodioxolyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2,3-Dimethoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(2-Fluorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

15 (2-Bromophenyl)[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-(Pyrrolidin-1-yl)phenyl)[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(3-Carboxamidophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (3-(Hydroxymethyl)phenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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- Phenyl[2-trifluoromethyl-4-( *E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((2-carbomethoxy-4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(pyridine-4-methylaminocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide;
- (2-Methoxyphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- 10 (2-(Azetidin-1-yl)phenyl)[2-trifluoromethyl-4-( *E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-(Piperidin-1-yl)phenyl)[2-trifluoromethyl-4-( *E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (3-Chloro-2-formylphenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Trifluoromethylphenyl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (3-Bromophenyl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (3,5-Dimethylphenyl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-dimethylaminocarbonyl-4-(pyridine-4-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-dimethylaminocarbonyl-4-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-dimethylaminocarbonyl-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(1-morpholinocarbonyl)-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(pyridine-4-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-(((3-dimethylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(benzylaminocarbonyl)-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(dimethylaminocarbonyl)-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Bromophenyl)[2-chloro-4-(*E*-((3-(5*S*-hydroxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

(2-Bromophenyl)[2-chloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

20 (2-Bromophenyl)[2-chloro-4-(*E*-(*N*-methyl-*N*-(3-(pyrrolidin-2-on-1-yl)prop-1-yl)amino)carbonyl) ethenyl)phenyl]sulfide;

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(2-[2-Methoxy]ethoxyphenyl)-[2-chloro-4(E-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( E-((3-(morpholinocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( E-((4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( E-((4-methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( E-(4-(pyridine-4-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( E-((3-(pyridine-3-methylaminocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( E-((3-(pyridine-2-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-nitro-4-( E-((3-(pyridine-3-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(4-Hydroxyphenyl)[2-nitro-4-( E-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(3,5-Dichlorophenyl)[2-nitro-4-( E-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

20 (2-Bromophenyl)[2-chloro-4-(E-((3-(5*S*-acetoxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

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(2-Bromophenyl)[2-chloro-4-(E-((3-(5*S*-methoxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

(2-Bromophenyl)[2-chloro-4-(E-((3-(4*R*-hydroxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

5 Phenyl[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Dimethylaminophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(3-((2-Hydroxyethyl)aminocarbonyl)phenyl)[2-nitro-4-(*E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl] phenyl sulfide;

10 (3-((3-(1-Imidazolyl)propyl)aminocarbonyl)phenyl)[2-nitro-4-(*E*-((4-  
acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(3-((2-(1-Morpholinyl)ethyl)aminocarbonyl)phenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-(3-hydroxymethyl-4-*tert*-

15 butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-formylpiperazin-1-yl)carbonyl)ethenyl) phenyl]  
sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((2-hydroxymethyl-4-*tert*-  
butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Ethoxyphenyl)-[2-chloro-4(E-[(3-ethoxycarbonylpiperidin-1-yl)carbonyl]ethenyl)  
phenyl]sulfide;

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A165  
  
(3-Aminophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(4-Aminophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

5 (2,4-Dimethylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2,5-Dimethylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

10 (4-Methoxyphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(3-Chlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Chloro, 4,5-diaminophenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

15 (3,4-Diaminophenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]

(6-Chlorobenzimidazol-2-on-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(1-Methylindol-7-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

20

(2-Hydroxy, 4-aminophenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-(4-(pyridine-2-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carbomethoxy-4-methoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carboxy-4-methoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-(3-carbomethoxy-4-methylpiperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;

(2-Ethoxyphenyl)-[2-chloro-4(*E*-[(3-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl]  
sulfide;

15 (2-Ethoxyphenyl)-[2-chloro-4(E-[(3-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl]  
sulfide;

(2-Ethoxyphenyl)-[2-chloro-4(E-[(2-ethoxycarbonylpiperidin-1-yl)carbonyl]ethenyl)phenyl]sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((1-(*tert*-butoxycarbonyl)-4-  
20 hydroxypyrrolidin-3-ylamino)carbonyl)ethenyl) phenyl] sulfide;

(2-Ethoxyphenyl)-[2-chloro-4(*E*-[(2-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl]  
sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-(((pyrrol-3-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-yl)prop-1-ylamino)carbonyl)ethenyl)phenyl] sulfide;

5 (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((4-(ethoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

10 (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((4-(2-furylcarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Ethoxyphenyl)-[2-chloro-4(*E*-[(3-ethoxycarbonylpiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(2-Ethoxyphenyl)-[2-chloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

15 (Benzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-ethoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-isopropoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-isobutoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((4-((1-propen-2-oxy)carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((4-propionylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((4-carboxamidopiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((4-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((4-(pyrimidin-2-yl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2-Isopropylphenyl)[2-nitro-4-( *E*-((4-hydroxyacetyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((4-(pyrazine-2-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-(((2-carboxypyrrol-3-in-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-hydroxymethyl-4-methylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-(((2-carboxypyrrol-3-in-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-(((2-hydroxymethylpyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-(((3-cyclopropylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboxamidopiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carbomethoxy-4-oxopiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3,5-dimethylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (1-Ethylindol-7-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(3-[2-Methoxy]ethoxyphenyl)-[2-chloro-4-(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

15 (2-Bromophenyl)[2-chloro-4-(*E*-((4,4'-*S*-dioxythiomorpholin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Bromophenyl)[2-chloro-4-(*E*-(*N*-carbomethoxymethyl-*N*-(3-(pyrrolidin-2-on-1-yl)prop-1-yl)amino)carbonyl) ethenyl)phenyl]sulfide;

(2-Bromophenyl)[2-chloro-4-(*E*-((4-*S*-oxythiomorpholin-1-yl)-2-pyrrolidinone)carbonyl) ethenyl)phenyl]sulfide;

20 (2-Methoxy-5-chlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-acetoxymethyl)piperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3,5-dimethyl-4acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (1-Methylindol-5-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl)ethenyl)phenyl]sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

15 (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*Z*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((6-methylpyrid-2-ylamino)carbonyl)ethenyl) phenyl] sulfide;

(2-Methyl-3-chlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (Benzodioxan-6-yl)[2-nitro-4-( *E*-((3-carboxamidopiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

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(Benzodioxan-6-yl)[2-nitro-4-( *E*-((2-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((4-carboxamidopiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

5 (Benzodioxan-6-yl)[2-nitro-4-( *E*-((4-*tert*-butoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((*syn*-3,5-dimethylmorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2-Isopropylphenyl)[2-nitro-4-( *E*-((*anti*-3,5-dimethylmorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-isopropoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(dimethylaminocarbonyl)-4-methylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carbomethoxy-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-hydroxymethyl-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-( *E*-((2-carbomethoxy-4-(methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Ethoxyphenyl)[2-trifluoromethyl-4-( *E*-((2-carbomethoxy-4-methyl piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-( *E*-((2-carboxy-4-(methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (Indol-6-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
(1-Ethyl,3-(dimethylaminomethyl)indol-7-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(5-Ethoxybenzodioxan-6-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2-Ethyl-4-bromophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((2-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((4-carboxymethylpiperazin-1-yl)

15 carbonyl)ethenyl) phenyl] sulfide;

(3-Morpholinophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(5-Ethoxybenzodioxan-8-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (5-Chloro-8-ethoxyquinolin-7-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-(((3-ethanesulfonylamino)carbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-(((3-(4-methylpiperazine)sulfonylamino)carbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-(((3-*p*-toluenesulfonylamino)carbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-methyl-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Hydroxyphenyl)-[2-chloro-4-(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide  
(1-(Carboxymethyl)indol-5-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-

15 yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(1-pyrrolidin-2-onyl)prop-1-ylamino)carbonyl)ethenyl) phenyl] sulfide;

20 (3-(2-Morpholinoethylamino)phenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Pyrrolidin-1-ylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(3-Bromophenyl)[2-nitro-4-(*E*-((3-carboethoxypyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

5 (3-Bromophenyl)[2-nitro-4-(*E*-((4-carboethoxypyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-(Hydroxymethyl)-benzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

10 (3-(Dimethylaminomethyl)indol-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carboethoxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-(*E*-(((4-*p*-toluenesulfonylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboxy-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((2-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-nitro-4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

10 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((2-carbomethoxy-4-*tert*-butoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

15 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((2-carbomethoxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((2-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Methyl-3-(carboethoxymethyl)indol-5-yl)[2-trifluoromethyl-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(1-(2-Methoxyethyl)indol-5-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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- (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-acetoxymethyl-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(dimethylaminocarbonyl)-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-cyanomorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboethoxymorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(tetrazol-5-yl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 10 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((2-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 15 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((4-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-aza-6,9-dioxaspiro[5.4]decan-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (Benzodioxan-6-yl)[2-trifluoro-4-(*E*-((4-(benzimidazol-1-yl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 20 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-(methylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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~~(Benzodioxan-6-yl)[2-trifluoromethyl-4-( E-((3-carbomethoxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;~~

~~(2-Isopropylphenyl)[2-nitro-4-( E-((3-carboxymorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;~~

5 ~~(Benzodioxan-6-yl)[2-trifluoromethyl-4-( E-((2-carboxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;~~

~~(Benzodioxan-6-yl)[2-trifluoromethyl-4-(E-((morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;~~

10 ~~(Benzodioxan-6-yl)[2-trifluoromethyl-4-(E-((4-(pyrrolidin-1-yl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;~~

~~(2-Isopropylphenyl)[2-nitro-4-(E-((3-aza-6,9-dioxaspiro[5.4]decan-1-yl)carbonyl)ethenyl) phenyl] sulfide;~~

~~(2-Isopropylphenyl)[2-nitro-4-(E-((2-(dimethylaminomethyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;~~

15 ~~(2-Isopropylphenyl)[2-nitro-4-(E-((piperidin-1-ylamino)carbonyl)ethenyl) phenyl] sulfide;~~

~~(Benzodioxan-6-yl)[2-trifluoromethyl-4-( E-((3-carboxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;~~

20 ~~(2-(Dimethylaminocarbonyl)-benzodioxan-6-yl)[2-chloro-4-( E-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;;~~

~~(2-Isopropylphenyl)[2-nitro-4-( E-((3-(2-(methoxymethyl)tetrazol-5-yl) piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide~~

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(1-(methoxymethyl)tetrazol-5-yl) piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(1-Methylindol-5-yl)[2-chloro-4-( *E*-((3-(1-pyrrolidin-2-onyl)propylamino) carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(tetrazol-5-yl) piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(1-Methylindol-5-yl)[2-chloro-4-( *E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide

10 (1-Methylindol-5-yl)[2-chloro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(1-Methylindol-5-yl)[2-chloro-4-( *E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(1-Methylindol-5-yl)[2-chloro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-(1-methylpyrrolidin-2-yl)ethylamino)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-(pyrrolidin-1-yl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-sulfopiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((3-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((3-  
((ethanesulfonylamino)carbonyl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;  
(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((3-((*p*-  
toluenesulfonylamino)carbonyl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;  
5 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((4-  
((ethanesulfonylamino)carbonyl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;  
(Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2(tetrazol-5-yl)morpholin-1-  
yl)carbonyl)ethenyl) phenyl] sulfide;  
(2-Isopropylphenyl)[2-nitro-4-( *E*-((2-butyl, 5-(tetrazol-5-yl)morpholin-1-  
10 yl)carbonyl)ethenyl) phenyl] sulfide;  
(2-(and 3-)(Hydroxymethyl)-benzodioxan-6-yl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-  
yl)carbonyl)ethenyl) phenyl] sulfide;  
(2-(and 3-)(Hydroxymethyl)-benzodioxan-6-yl)[2-nitro-4-(*E*-((3-(pyrrolidin-2-on-1-  
yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;  
15 (2-(and 3-)(Hydroxymethyl)-benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-  
(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;  
(3-Hydroxymethyl)-benzodioxan-6-yl)[2-nitro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-  
ylamino)carbonyl) ethenyl)phenyl]sulfide;  
(Benzodioxan-6-yl)[2-chloro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)  
20 phenyl]  
(2-(and 3-)(Aminomethyl)-benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-  
2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

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(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(methylaminocarbonyl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(hydroxymethyl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(acetoxymethyl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(aminomethyl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

10 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-(acetamidomethyl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

(Benzodioxan-6-yl)[2-chloro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

15 (Benzodioxan-6-yl)[2-chloro-4-( *E*-((2-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide

(2-Methoxyphenyl)-[2,3-dichloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(2-Methoxyphenyl)-[2,3-dimethyl-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((indol-5-ylamino)carbonyl)ethenyl) phenyl] sulfide;

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(Benzodioxan-6-yl)[2-chloro-4-( *E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-chloro-4-( *E*-((3-(tetrazol-5-yl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

5 (Benzodioxan-6-yl)[2-chloro-4-( *E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-chloro-4-( *E*-((2-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

10 (Benzodioxan-6-yl)[2-chloro-4-( *E*-((3-(tetrazol-5-yl)morpholin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-chloro-4-( *E*-((4-(methylaminocarbonyl)piperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Methoxyphenyl)-[2,3-dichloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;

15 (Benzodioxan-6-yl)[2-chloro-4-( *E*-((4-(tetrazol-5-yl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Methoxyphenyl)-[3-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((4-oxopiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((3-*R*-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((3-*R*-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

5 (Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

10 (Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((3-(1-pyrrolidin-2-onyl)propylamino) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

20 (2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

5 (1-Methylindol-5-yl)[2,3-dichloro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(1-Methylindol-5-yl)[2,3-dichloro-4-( *E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(1-Methylindol-5-yl)[2,3-dichloro-4-( *E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

10 (1-Methylindol-5-yl)[2,3-dichloro-4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Ethoxyphenyl)-[2,3-dichloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;

15 (2-Ethoxyphenyl)-[2,3-dichloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(2-Ethoxyphenyl)-[2,3-dichloro-4(*E*-[(3-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboethoxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

20 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carboxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(2-Isopropylphenyl)[2,3-difluoro-4-( *E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-difluoro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

5 (2-Isopropylphenyl)[2,3-difluoro-4-( *E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-ethoxycarbonylpyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide

10 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Methoxyphenyl)[2-chloro-3-trifluoromethyl-4-( *E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Methoxyphenyl)[2-chloro-3-trifluoromethyl-4-( *E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Methoxyphenyl)[2-chloro-3-trifluoromethyl-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl) [ 4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl)naphthyl] sulfide;

20 (2-Methoxyphenyl) [2,3-dichloro-4-( *E*-((4-(spiro-hydantoin-5-yl)-piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl) [2,3-dichloro-4-( *E*-(4-(2-(2-hydroxyethoxy)ethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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(1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-(4-tetrahydrofuroyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl)[2,3-dichloro-4-((4-furoylpiperazin-1-yl)carbonyl)ethenyl]phenyl]  
sulfide;

~~(2-Methoxyphenyl)[ 2,3-dichloro-4-( *E*-(4-acetylamino-4-carboxypiperidin-1-ylcarbonyl)ethenyl)phenyl] sulfide;~~

(2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(E-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

15 (2-Methoxyphenyl) 5-[8-(E-((4-(aminocarbonyl)piperidin-1-yl)carbonyl)ethenyl)quinolinyl]sulfide;

(2-Methoxyphenyl) [2-trifluoromethyl-4-(E-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(1-Methylindol-5-yl) [2,3-dichloro-4-(*E/Z*-((1*S*,4*S*)-2,5-diazabicyclo(2,2,1)heptan-2-ylcarbonyl)ethenyl)-2,3-dichlorophenyl] sulfide;

(1-Methylindol-5-yl) [2,3-dichloro-4-( *E*-(4-hydroxy-3-carboxypiperidin-1-ylcarbonyl)ethenyl)phenyl] sulfide;;

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(1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-(*S*-oxothiomorpholin-1-ylcarbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-sulfophenylamino)carbonyl)ethenyl)phenyl] sulfide;

5 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-carboxyphenylamino)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Morpholino)phenyl] [2,3-dichloro-4-(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

10 [3-(4-Morpholino)phenyl] [2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl)[2,3-bis(trifluoromethyl)-4-(*E*-((4-phenylcarboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(((4-hydroxylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

15 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((*N*-carboxymethyl-*N*-phenylamino)carbonyl)ethenyl)phenyl] sulfide;

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(2-Methoxyphenyl) [3-chloro-6-hydroxy-4-(E-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Methoxyphenyl) [2,3-dichloro-4-(E-(4-((1-(2-phenyl-1-carboxyethyl)amino)carbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

5 (2-Methoxyphenyl) [2,3-dichloro-4-(E-(4-((1-(2-hydroxy-1-carboxyethyl)amino)carbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(3-(1-(3-Carboxypiperidiny)phenyl)[2,3-dichloro-4-(E-((1,2,5,6-tetrahydropyridin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(3-(4-Pyrrolidin-1-yl)piperidin-1-yl)phenyl [2,3-dichloro-4-(E-((3-(2-pyrrolidinon-1-yl)propylamino)carbonyl)ethenyl)phenyl]sulfide;

[3-(4-(Spiro-2,2-dioxolanyl)piperidin-1-yl)phenyl] [2,3-dichloro-4-(E-((4-morpholinyl)carbonyl)ethenyl)phenyl]sulfide;

[3-(3-Carboxylpiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

15 (2-(2-Carboxy)ethenyl)phenyl [2,3-dichloro-4-(E-((4-morpholinyl)carbonyl)ethenyl)phenyl]sulfide;

[3-(4-Carboxylpiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-[(1,2,3,6-tetrahydropyridine)-1-yl)carbonyl]ethenyl)phenyl] sulfide;

[3-(4-Carboxylpiperidiny)phenyl] [2,3-dichloro-4-(E-[(4-morpholinyl)carbonyl]ethenyl)phenyl] sulfide;

20 [2-(4-Acetylpiperazin-1-yl)phenyl] [2,3-dichloro-4-(E-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

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3 (3-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-[(4-morpholinyl)carbonyl]ethenyl)phenyl] sulfide;

Sub P165 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-[(4-(dimethylammosulfamoyl)piperazin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

5 (2-Methoxyphenyl)[2,3-bis(trifluoromethyl)-4-(E-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

(2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(E-((2-carboxypyrrolidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

10 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-((4-((trifluoromethylsulfonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
(2-Methoxyphenyl)[2,3-dichloro-4-(E-(piperidin-1-ylcarbonyl)ethenyl)phenyl] sulfide;

(2-Hydroxyphenyl) [2,3-dichloro-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl]sulfide;

15 (2-Methoxyphenyl) [2,3-dichloro-4-(E-(((4-carboxyphenyl)methyl)amino)carbonyl)ethenyl)phenyl]sulfide;

(2-Methoxyphenyl) [2,3-dichloro-4-(E-(((4-pyrrolidin-1-yl)piperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

20 (2-Hydroxyphenyl)[2,3-dichloro-4-(E-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-((4-((methylsulfonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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(2-Aminophenyl) [2,3-dichloro-4-(*E*-((4-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

(3-(4-carboxypiperidin-1-yl)phenyl)[2,3-dichloro-4-(*E*-((S-oxothiomorpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

5 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-hydroxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Glycoxyphenyl) [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

10 (2-(4-Butyroxyl)phenyl)[2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-hydroxyethylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-furoylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

15 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((pyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((diethylaminocarbonyl)ethenyl)phenyl] sulfide;

20 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-ethylpiperazin-yl)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-(aminocarbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-((4-(2-ethoxyethyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

[3-((4-Carboxymethyl)piperazin-1-yl)phenyl] [(2,3-dichloro-4-(E-(4-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;

5 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

(3-Hydroxyphenyl) [2,3-dichloro-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

10 [3-(4-Butyroxyl)phenyl] [2,3-dichloro-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

(2-Hydroxyphenyl) [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

(3-Hydroxyphenyl) [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

15 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-ditrifluoromethyl-4-(E-((4-hydroxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-ditrifluoromethyl-4-(E-((1,2,5,6-tetrahydropyridin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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[2-((4-Carboxy)butyloxy)phenyl] [2,3-dichloro-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

(2-Glycoxyphenyl) [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

5 [2-(4-Butyroxyl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-ditrifluoromethyl-4-(E-((bis-(2-ethoxyethyl)amino)carbonyl)ethenyl)phenyl] sulfide;

10 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-bis-(trifluoromethyl)-4-(E-((bis-(2-hydroxypropyl)amino)carbonyl)ethenyl)phenyl] sulfide;

[3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-bis-(trifluoromethyl)-4-(E-((piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(3-(4-Butyroxyl)phenyl) [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;

15 [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-[(3-(2-pyrrolidinon-1-yl)propylaminocarbonyl)ethenyl)phenyl] sulfide;

[2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-[(3-(2-pyrrolidinon-1-yl)propylaminocarbonyl)ethenyl)phenyl] sulfide;

20 [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(E-((4-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

[2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-((1,2,5,6-tetrahydropyridin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

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[2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-((4-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

[2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-((4-(2-(hydroxyethoxy)ethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide; and

(3-(3-Propioxy)phenyl) [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide.

13. A compound according to Claim 1 selected from the group consisting of:

10 (2-Formylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Ethoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(2-Isopropylphenyl)[2-nitro-4-(*E*-((3-dimethylaminocarbonyl-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-methoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((2-carboxy-4-(methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(2-Ethyl-4-bromophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(3-Morpholinophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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5 (2-(Hydroxymethyl)-benzodioxan-6-yl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

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(Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxypiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

15 (Benzodioxan-6-yl)[2-chloro-4-( *E*-((4-(methylaminocarbonyl)piperazin-1-yl)  
carbonyl)ethenyl) phenyl] sulfide;

(2-Methoxyphenyl)-[2,3-dichloro-4-(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;

(Benzodioxan-6-yl)[2-trifluoromethyl-4-( *E*-((3-*R*-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-(E-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(Benzodioxan-6-yl)[2,3-dichloro-4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-( *E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-(carboxymethylamino)carbonyl-piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-carboxymethylpiperazin-1-yl) carbonyl)ethenyl)phenyl]sulfide; and

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(2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(E-((4-N-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide.

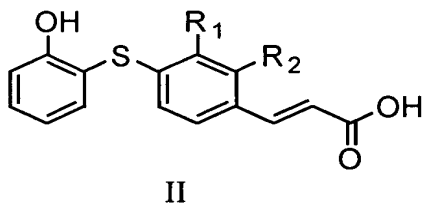
**Insert new compounds here**

- 5 14. A compound according to Claim 1 wherein **Ar** is selected from the group consisting of methoxyphenyl and isopropylphenyl.
- 10 15. A compound according to Claim 1 wherein **Ar** is benzodioxan or substituted benzodioxan.
16. A compound according to Claim 1 wherein  $R_3$  is a "trans-cinnamide"; and **Ar** is selected from 1,3-benzimidazol-2-one, 1,4-benzodioxane, 1,3-benzodioxole, 1-benzopyr-2-en-4-one, indole, isatin, phenyl, 1,3-quinazolin-4-one, and quinoline.
- 15 17. A compound according to Claim 1 wherein  $R_{10}$  and  $R_{11}$  are independently selected from hydrogen, alkyl, cycloalkyl, alkoxycarbonylalkyl, hydroxyalkyl, and heterocyclylalkyl.
- 20 18. A compound according to Claim 1 wherein  $NR_{10}R_{11}$  is heterocyclyl or substituted heterocyclyl.

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19. A pharmaceutical composition comprising a compound of Claim 1 in a pharmaceutically-acceptable carrier.
20. A method of inhibiting inflammation comprising the administration of a compound of Claim 1 to a mammal in need of treatment.
21. A method of inhibiting inflammation comprising the administration of a composition of Claim 12 to a mammal in need of treatment.
22. A method of suppressing immune response comprising the administration of a compound of Claim 1 to a mammal in need of treatment.
23. A method of suppressing immune response comprising the administration of a composition of Claim 12 to a mammal in need of treatment.
24. A compound of formula II



wherein  $R_1$  and  $R_2$  are independently selected from the group consisting of

- i. hydrogen,
- j. halogen,
- k. alkyl,
- l. haloalkyl,
- m. alkoxy,
- n. cyano,
- o. nitro, and
- p. carboxaldehyde.

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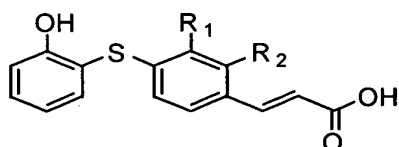
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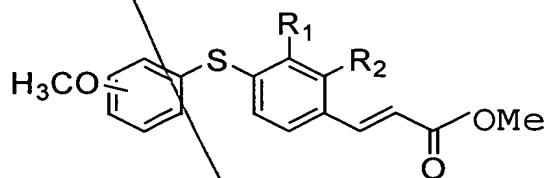
25. A process for preparing a compound of formula II



II

which comprises:

- 5 a) reacting a compound of formula II'



II'

with lithium hydroxide, and

- 10 b) cleaving the resulting methyl ether.

26. The compound of Claim 1 with the proviso that when three of R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, and R<sub>5</sub> are hydrogen, then the remaining R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, or R<sub>5</sub> is not carboxyl, 5-tetrazolyl, hydroxymethyl or carboxyl derivatized in the form of a pharmaceutically acceptable ester.

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